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File: USPT

Sep 25, 2001

US-PAT-NO: 6294847

DOCUMENT-IDENTIFIER: US 6294847 B1

TITLE: Bistable micro-electromechanical switch

DATE-ISSUED: September 25, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
De Los Santos; Hector J.	Inglewood	CA		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
The Boeing Company	Seattle	WA			02

APPL-NO: 09/ 439233

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US-CL-ISSUED: 307/125; 333/262

US-CL-CURRENT: 307/125; 333/262

FIELD-OF-SEARCH: 307/125, 333/101, 333/105, 333/262, 200/131, 200/245, 200/246, 200/414, 200/421

## PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5578976</u>	November 1996	Yao	333/262
<u>6069540</u>	May 2000	Berenz et al.	333/101

ART-UNIT: 286

PRIMARY-EXAMINER: Ballato; Josie

ASSISTANT-EXAMINER: Deberadinis; Robert L.

## ABSTRACT:

A bistable micro-electromechanical switch (10) having two parallel plate capacitors (17, 19) spaced a distance from each other on a substrate (12). A transmission line (30), having a detached segment (22), that is movable on the substrate (12), is located

on the substrate (12) between the parallel plate capacitors (17, 19). A dielectric beam (24) is attached to the movable transmission line segment (22) and the ends of the dielectric beam (24) protrude into each of the parallel plate capacitors (17, 19). When a voltage (26, 28) is applied to one of the capacitors (17 or 19), the dielectric beam (24) is pulled into the capacitor (17 or 19) and brings the movable transmission line segment (22) with it. As the transmission line segment (22) is moved either into, or out of, alignment with the transmission line (30), a path through the transmission line is either closed, or opened.

7 Claims, 8 Drawing figures

Full Title CIT.1 REV.1 CLS.1 REF.1 SEQ.1 ATT.1  
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